

4 8-28-02 10/689569
Rec'd PCT/FR 02 APR 2002
RE
PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

PCT/FR01/02530

Joel JACQUET

Attorney Docket Q68831

Appln. No.: Not Assigned

Confirmation No.: Not Assigned

Group Art Unit: Not Assigned

Filed: April 02, 2002

Examiner: Not Assigned

For: AN EDGE-EMITTING TUNABLE SEMICONDUCTOR LASER

PRELIMINARY AMENDMENT

Commissioner for Patents
Washington, D.C. 20231

Sir:

Prior to examination, please amend the above-identified application as follows:

IN THE CLAIMS:

Please enter the following amended claims:

A1
A2
3. (Amended)A tunable laser according to claim 1, characterized in that the length L_2 of the tunable section (2) depends on the tuning range of the laser in accordance with the following equation:

$$\Delta\lambda = \lambda^2/2(n_1L_1+n_2L_2)$$

where $\Delta\lambda$ is the tuning range of the laser,

λ is the emission wavelength of the laser, and

n_1 , n_2 are the respective refractive indices of the first and second sections of the laser cavity.

5. (Amended)A tunable laser according to claim 1, characterized in that the fixed reflector (15) and the mobile reflector (20) each have a reflectivity greater than or equal to 90%.

6. (Amended)A tunable laser according to claim 1, characterized in that the fixed